

WESTON

MEMORANDUM

TO: Mike Zickler, Senior OSC, U. S. Region III PCS #5132
THRU: Steve Jarvela, EPO, U. S. Region III *SV*
THRU: Rich Habrukowich, TATL, Region III *RH*
FROM: B. D. Khona, RSO, Region III *BOK*
SUBJECT: NVF PCB Analysis
DATE: March 11, 1986

This report covers review of 30 soil samples submitted to Martel Laboratory on March 6, 1986, for the analysis of PCB. The findings in this report are based on a general review of the data provided.

- (1) All the samples were spiked with surrogate spike. All surrogate spike recoveries within the acceptable range.
- (2) 10% of the samples were checked for matrix spike recoveries. All matrix spike recoveries were within the acceptable range.
- (3) 10% of the samples were run in duplicate. The duplicate analysis showed acceptable RPD.
- (4) Confirmation was done on second column.

Conclusion: All the results are accepted without any exception.

BDK:ah

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Certificate of Laboratory Analysis

Martel Laboratory Services, Inc.

1025 Cromwell Bridge Road

Baltimore, Maryland 21204

(301) 825-779

Invoice Number 20339

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Sample W-9990 30 Soil samples from NVF- Kennett Square, received by Martel Laboratory Services on 2/17/86, Project No. f3-8602-02.
P.O.# 20899 received March 7, 1986

Roy F. Weston, Inc./Sper
5090 Central Highway
Suite 4
Pennsauken, New Jersey 08109

March 3, 1986

Attention: Bhupi Khona

<u>Station Number</u>	<u>PCB content, mg/kg</u>	<u>Surrogate spike recovery, %</u>
1	680	89
2	48	94
3	11,000	93
4	44	100
5	370	88
6	330	90
7	150	101
3	110	98
9	32	96
10	110	91
10 + spike	160	93
Method blank	ND	98
11	39	90
12	53	92
13	160	95
14	ND	87
15	ND	91
16	60	99
17	ND	95
17 (rep.)	ND	90
18	4.3	88
19	39	96
20	88	94
20 + spike	140	99
Method blank	ND	

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<u>Station Number</u>	<u>PCB content, mg/kg</u>	<u>Surrogate spike recovery, %</u>
21	84	103
22	81	100
23	100	94
24	5.1	96
24 (rep.)	3.0	90
25	1.8	97
26	120	91
27	3.4	106
28	11	92
29	270	99
29 (rep.)	190	91
30	2.0	88
30 + spike	48	94
Method blank	ND	99

Principal PCB was found to be Arochlor 1248, with some Arochlor 1254 present.

ND: not detected. Detection limit 2 mg/Kg. Other interferences from samples preclude lower detection limit.

Surrogate spike: decachlorobiphenyl, 1 mg per 1 kg sample.

Method: EPA SW-846 method 3540 (Soxhlet extraction) followed by 8080 (gas chromatographic analysis), using column 2. Confirmation on column 1.

Standards: Supelco PCB standards 4-8825, lot #LA-13489, diluted to suitable concentrations.

Spike: Arochlor 1254, equivalent to 50mg/kg. "non responsive based on revised scope"

Vice President

jel

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